



6009 NR Deep groove ball bearings

- SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

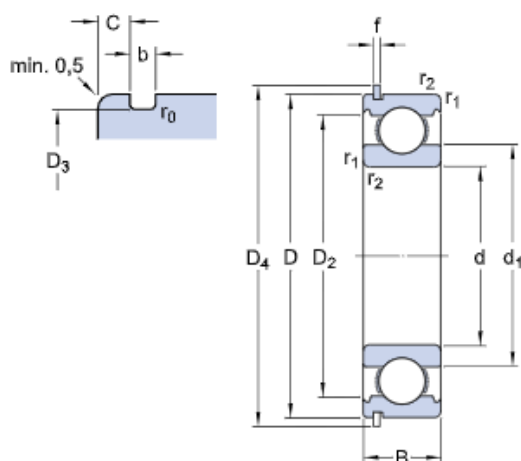
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

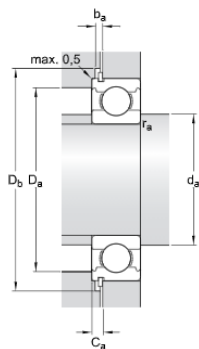


DIMENSIONS

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	16 mm	Width
d ₁	≈ 54.75 mm	Shoulder diameter
D ₂	≈ 67.8 mm	Recess diameter
D ₃	71.83 mm	Diameter of snap ring groove
D ₄	81.6 mm	Outside diameter of snap ring
b	1.9 mm	Width of snap ring groove
C	2.49 mm	Distance outer ring from side face to snap ring groove
f	1.7 mm	Width of snap ring
r ₀	max. 0.6 mm	Bottom radius of snap ring groove
r _{1,2}	min. 1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 50.8 mm	Diameter of shaft abutment
D _a	max. 69.2 mm	Diameter of housing abutment
Db	min. 83 mm	Diameter of snap ring recess in the housing



b_a	min. 2.2 mm	Width of snap ring recess in the housing
C_a	max. 4.19 mm	Distance from outer ring side face to snap ring back face
r_a	max. 1 mm	Radius of shaft or housing fillet

CALCULATION DATA

C	22.1 kN	Basic dynamic load rating
C_0	14.6 kN	Basic static load rating
P_u	0.64 kN	Fatigue load limit
	20 000 r/min	Reference speed
	12 000 r/min	Limiting speed
k_r	0.025	Minimum load factor
f_0	14.9	Calculation factor

MASS

0.25 kg	Mass bearing
---------	--------------

INCLUDED PRODUCTS

SP 75	Snap ring
-------	-----------

TOLERANCE CLASS

P6	Dimensional tolerances
P6	Radial run-out